

### **Amendments to the Claims**

This listing of claims will replace all prior versions and listings, of claims in the application.

#### **Listing of Claims:**

1   **Claim 1** (currently amended):   In an electrodialysis system comprising a source of  
2   concentrate fluid, a source of dilute fluid, a collector of treated concentrate fluid; a  
3   collector of used dilute fluid, an anode, a cathode, a plurality of generally planar  
4   spacers, a plurality of membranes interleaved with said spacers to define a plurality of  
5   cells providing electrically conductive fluid connection between said anode and said  
6   cathode, each of said spacers comprising:  
7           a gasket defining at least a first aperture and a second aperture separated  
8   by a partition having one or more holes therethrough, each of said first and second  
9   apertures defining an independent cell between interleaved membranes; and  
10           at least one connector bolt removably extended through said one or more  
11   holes through said partition between said first aperture and said second aperture.

1   **Claim 2** (original):   The apparatus of Claim 1 wherein said apertures have the  
2   shape of an abbreviated rectangle having squares removed from two diagonally  
3   opposed corners.

1   **Claim 3** (original):   The apparatus of Claim 2 wherein all corners of said apertures  
2   are rounded.

1   **Claim 4** (currently amended):   The apparatus of Claim 1 wherein a conduit provides  
2   flow communication in series between said first aperture and said second aperture.

**Claim 5** (cancelled):

**Claim 6** (currently amended): The apparatus of Claim 5 1 wherein said ~~bolts are at~~  
least one connector bolt is coated with an electrically resistant material.

**Claim 7** (currently amended): A method of electrodialysis treatment comprising the  
steps of:

providing a source of concentrate fluid,

providing a source of dilute fluid,

providing a collector of treated concentrate fluid;

providing a collector of used dilute fluid,

providing an anode,

providing a cathode,

securing a plurality of generally planar spacers and a plurality of membranes  
interleaved with said spacers to define a plurality of cells, said step of securing  
including each of said spacers having a gasket defining at least a first aperture and a  
second aperture separated by a partition having one or more holes therein and  
through which are removably inserted one or more connectors coated with an  
electrically resistant material, each of said first and second apertures defining an  
independent cell between two common interleaved membranes,

providing electrically conductive fluid connection between said anode and said  
cathode, and

providing flow communication from said first aperture to said second aperture.

19       ~~wherein each of said spacers comprises a gasket defining at least a first~~  
20 ~~aperture and a second aperture, each of said first and second apertures defining an~~  
21 ~~independent cell between two common interleaved membranes.~~

1   **Claim 8** (previously presented): A method in accordance with Claim 7 wherein said  
2 apertures have the shape of an abbreviated rectangle having squares removed from  
3 two diagonally opposed corners.

1   **Claim 9** (original):       The method of Claim 8 wherein all corners of said apertures  
2 are rounded.

**Claim 10** (cancelled):

1   **Claim 11** (currently amended): An electrodialysis system comprising a source of  
2 concentrate fluid, a source of dilute fluid, a collector of treated concentrate fluid; a  
3 collector of used dilute fluid, an anode, a cathode, a plurality of generally planar  
4 spacers, a plurality of membranes interleaved with said spacers to define a plurality of  
5 cells providing electrically conductive fluid connection between said anode and said  
6 cathode, each of said spacers comprising:

7       a gasket defining a plurality of adjacent apertures, each of said adjacent  
8 apertures being separated by a partition having at least one hole therein and through  
9 which at least one connector is removably extended to bind together said plurality of  
10 cells, each of said apertures defining an independent cell between interleaved  
11 membranes, said apertures having the shape of an abbreviated rectangle having  
12 squares removed from two diagonally opposed corners, a plurality of conduits

13 providing flow communications in sequential series orientation between each adjacent  
14 aperture of said plurality of adjacent apertures.

1 **Claim 12** (original): The apparatus of Claim 11 wherein all corners of said  
2 apertures are rounded.

1 **Claim 13** (new): The apparatus of Claim 11 wherein said at least one connector  
2 is composed of non-conductive material.

1 **Claim 14** (new): An electro dialysis system comprising a source of concentrate  
2 fluid, a source of dilute fluid, a collector of treated concentrate fluid; a collector of  
3 used dilute fluid, an anode, a cathode, a plurality of generally planar spacers, a  
4 plurality of membranes interleaved with said spacers to define a plurality of cells  
5 providing electrically conductive fluid connection between said anode and said  
6 cathode, each of said spacers comprising:  
7 a gasket defining a plurality of adjacent apertures, each of said adjacent  
8 apertures being separated by a partition having at least one hole therein and through  
9 which at least one non-conductive connector is removably extended to bind together  
10 said plurality of cells, each of said apertures defining an independent cell between  
11 interleaved membranes, said apertures having the shape of an abbreviated rectangle  
12 having squares removed from two diagonally opposed corners, and a plurality of  
13 conduits providing flow communications in parallel orientation between each one of  
14 said adjacent apertures of said spacers between interleaved membranes stacked  
15 within said plurality of cells.

1    Claim 15 (new)            The electrodialysis system of Claim 14 wherein a plurality of  
2    conduits provide flow communication in series between said plurality of adjacent  
3    apertures.

1    Claim 16 (new)            The electrodialysis system of Claim 14 wherein a plurality of  
2    conduits provide flow communication in parallel between said plurality of adjacent  
3    apertures.